## AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

- (original) An apparatus for improved shock and vibration isolation of a circuit component utilizing solder column grid arrays to provide electrical connection to a base component, the apparatus comprising:
- (a) a support frame attached to the circuit component and to the base component which supports the circuit component on the base component; and
- (b) an isolation material located at a point between the circuit component and the base component such that a vibration or shock to the base component must travel through the isolation material prior to reaching the circuit component.
- 2. (currently amended) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein the point between the circuit component and the base component is at least one of the points between the support frame and the circuit component, between the support frame and the base component, or between two components of the support frame.
- 3. (original) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein the isolation material is selected from the group consisting of polystyrene, visco-elastic polymer and thermo set polyether-based polyurethane.

- 4. (original) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein an isolation material is additionally provided between the support frame and an additional component.
- 5. (currently amended) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein the circuit component includes a package lid and the isolation material is located at a point between the package lid and a the support frame.
- 6. (original) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein the circuit component includes a substrate and the isolation material is located at a point between the substrate and a support frame.
- 7. (original) An apparatus for improved shock and vibration isolation of a circuit component according to Claim 1, wherein the circuit component includes a package lid, wherein the package lid or the support frame includes a protrusion which cooperates with a corresponding recess on the other of the package lid or the support frame, and wherein the isolation material is located between the protrusion and the recess.

- 8. (original) An apparatus for improved shock and vibration isolation of a CGA integrated package which utilizes solder column grid arrays to provide electrical connection to a circuit board and which includes a substrate and a package lid, the apparatus comprising:
- (a) a support frame attached at an attachment point to the substrate
  or the package lid of the integrated package and at a second attachment point to the
  circuit board; and
- (b) an isolation material located at the attachment point of the support frame to the substrate or the package lid, or located at the second attachment point of the support frame to the circuit board such that a vibration or shock to the circuit board must travel through the isolation material at the attachment point prior to reaching the integrated circuit.
- 9. (original) An apparatus for improved shock and vibration isolation of a CGA integrated package according to Claim 8 wherein the isolation material is located at both the attachment point of the support frame to the substrate or the package lid, and located at the second attachment point of the support frame to the circuit board such that a vibration or shock to the circuit board must travel through the isolation material at the attachment point prior to reaching the CGA integrated package.
- 10. (original) An apparatus for improved shock and vibration isolation of an integrated package according to Claim 8, wherein the isolation material is selected from the group consisting of polystyrene, visco-elastic polymer and thermo set polyether-based polyurethane.

- 11. (original) An apparatus for improved shock and vibration isolation of a CGA integrated package according to Claim 8, wherein the package lid or the support frame includes a protrusion which cooperates with a corresponding recess on the other of the package lid or the support frame, and wherein the isolation material is located between the protrusion and the recess.
- 12. (original) An apparatus for improved shock and vibration isolation of a CGA integrated package according to Claim 8, wherein an isolation material is additionally provided between the support frame and an additional component, and wherein the additional component is a heat sink.
- 13. (original) An apparatus for improved shock and vibration isolation of a CGA integrated package according to Claim 8, wherein the support frame is attached to the circuit board via a screw and the isolation material is located at a point between the screw and the circuit board.

14-20. (cancelled)

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Figures 2 and 3. With

regard to Figure 2, the lead line and arrow point for reference numeral 110 has been

modified to better indicate that it refers to the integrated circuit package and not just

to package lid 114. With regard to Figure 3, the lead line for reference numeral 212

has been extended to properly refer to the substrate. The attached sheets, which

include Figures 2 and 3, replace the original drawing sheets.

**Attachment: Replacement Sheet(s)**